

**Real-Time Object Tracking Using Computer Vision**

**Design Project Circuit**

Presented by

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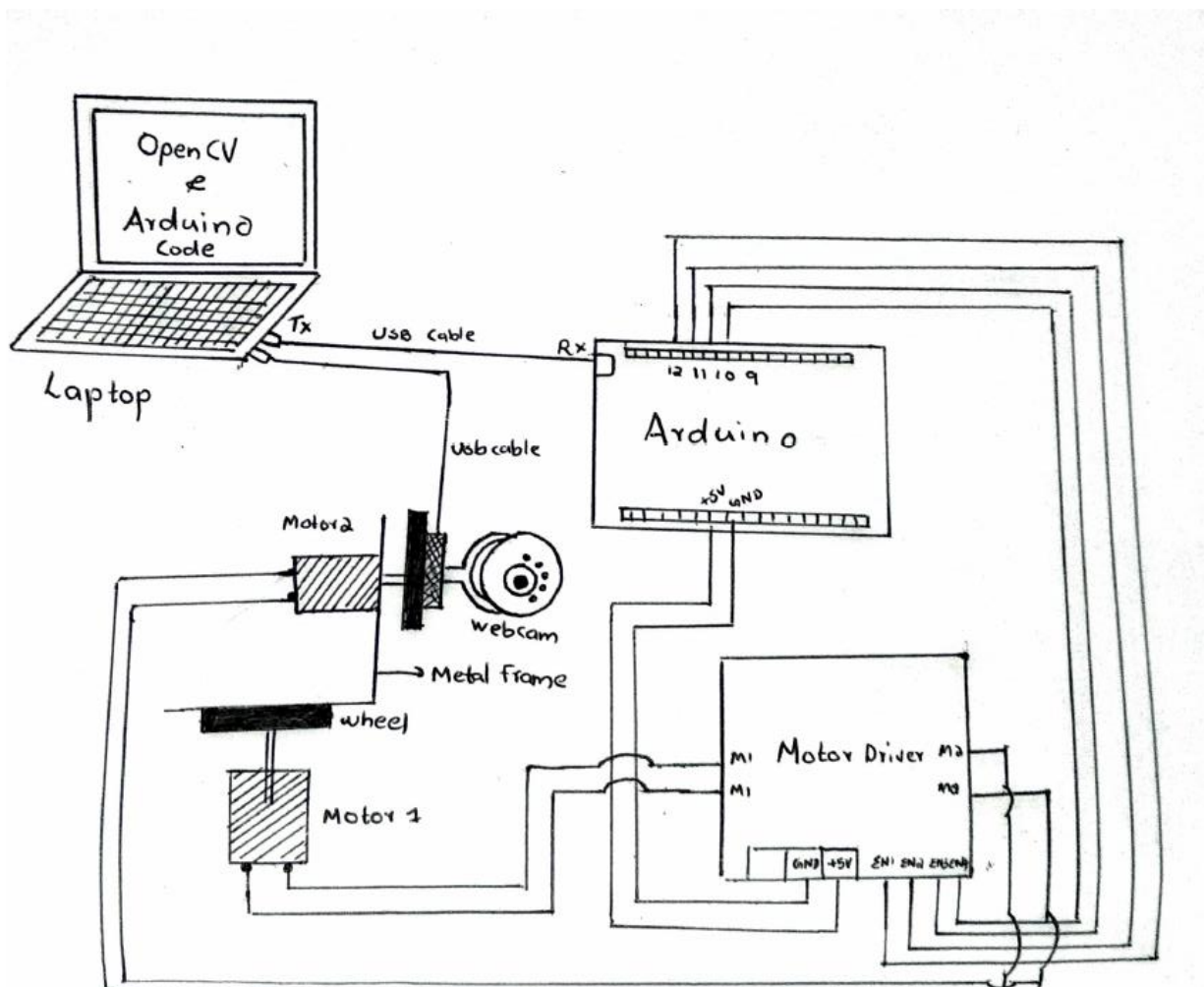
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## COMPONENTS REQUIRED

- 1) ARDUINO ATMEGA328 MICROCONTROLLER
- 2) 200rpm MOTORS
- 3) LM293D MOTOR DRIVER IC
- 4) USB WEBCAM
- 5) MECHANICAL SUPPORTS

## CIRCUIT DIAGRAM



## **Summarizing the process**

- 1) Take each frame of the video.
- 2) Convert each frame from BGR to HSV color-space.
- 3) Threshold the HSV image for a range of blue color.
- 4) PySerial Transmission
- 5) Arduino Processing
- 6) Motor Driving